

MEAL COOLER CENTRIFUGAL SEPARATOR

ABSTRACT OF THE DISCLOSURE

A particulate capture system having a plurality of high speed rotating
5 paddles for separating particulate from an air stream. The system includes an air
circulating chamber within a centrifuge that separates a first portion of particulate
trapped within an air stream. The particulate capture system also has a blender section
that separates a second portion of particulate trapped within the air stream. The first
portion of particulate is separated via circulating air flow. The second portion of
10 particulate is separated via encapsulating the particulate in water. The water
encapsulated particles may be recirculated to a cooler or other device where the
particulate may be blended with a bulk product being processed.

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